INSTRUCTIONS

-J05041 REV. 2011-05-25

SOFTAIL SPRING SEAT MOUNTING KIT

GENERAL

Kit Numbers

54375-10, 54376-10, 54377-10, 52000014

Models

For model fitment information, see the P&A Retail Catalog or the Parts and Accessories section of www.harley-davidson.com (English only).

Additional Parts Required

Proper installation of this kit requires the separate purchase of spring seat saddle kit (Part No. 54072-10 or 54373-10).

Proper installation of this kit requires the use of Loctite® 243 Threadlocker and Sealant - Blue (Part No. 99642-97).

For FLSTC/F/FB/N models: Proper installation of this kit requires four 1/4 in flat washers (6235) or similar hardware.

⚠WARNING

The rider's safety depends upon the correct installation of this kit. Use the appropriate service manual procedures. If the procedure is not within your capabilities or you do not have the correct tools, have a Harley-Davidson dealer perform the installation. Improper installation of this kit could result in death or serious injury. (00333a)

NOTE

This instruction sheet references service manual information. A service manual for your model motorcycle is required for this installation and is available from a Harley-Davidson dealer.

Kit Contents

See Figure 6 and Table 1.

INSTALLATION

Prepare Vehicle

1. Refer to service manual and remove the existing seat, grabstrap (if equipped) and rear tab seat mounting hardware.
2. **For FXST and FLSTSB models:** See Figure 6. Install plug (17) in the fender hole left vacant after seat hardware removal.

   For FLSTC/F/FB/N models: Remove the large plastic retaining washers from stud bracket. Do not remove stud bracket. Secure stud bracket with four flat washers (part no. 6235 or equivalent washer stack with a minimum 0.10 in (2.5 mm) thickness) and the previously removed nuts (part no. 3633).

For FXS models:

a. See Figure 6. Install plug (17) in the fender hole left vacant after seat hardware removal. Do not remove the grabstrap mounting hardware in the fender.

b. Disconnect ECM harness and remove ECM. Follow instructions in service manual.

c. See Figure 1. If equipped with "tall tower" ECM caddy, follow steps 2.d through 2.h. If not equipped with a tall tower ECM caddy, skip to Step 3.

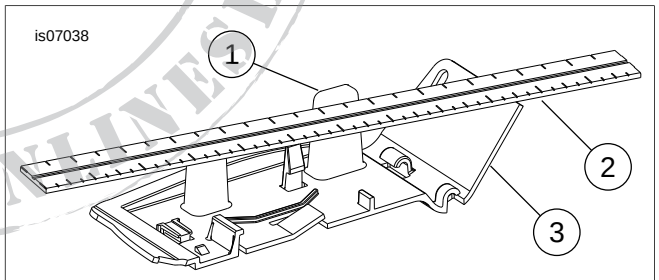
d. Remove ECM caddy following instructions in service manual.

e. See Figure 1. Put ECM caddy on a firm surface and place a straight-edge (2) across ECM caddy (3). Mark or scribe the taller tower (1) underneath the straight-edge.

f. See Figure 2. Measure from first scribed line (1) and mark or scribe a line 0.12 in (3 mm) (2) upward from initial mark.

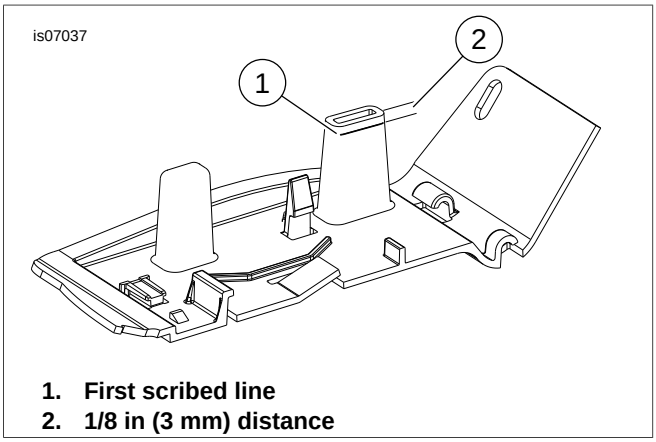
g. Cut the top of the tower with a hack-saw or similar tool.

h. Clean debris from tower and put the ECM caddy into position, but do not fasten into place at this time. Install ECM but do not connect harness at this time.



1. **Tall tower**
2. **Straight-edge**
3. **ECM Caddy**

Figure 1. Place Straight-Edge Across Caddy



1. **First scribed line**
2. **1/8 in (3 mm) distance**

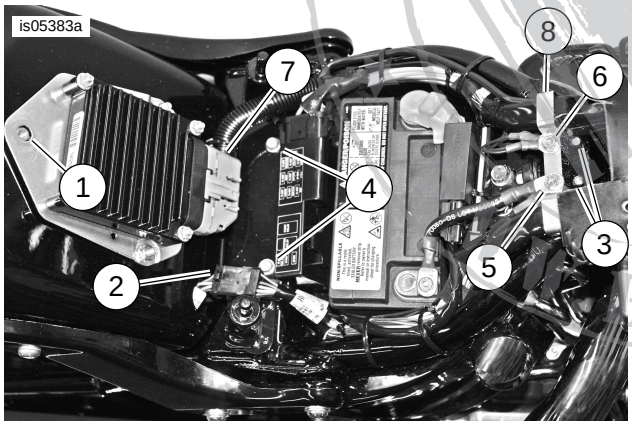
Figure 2. Cut Top of Tower

3. See Figure 3. If not already done, disconnect ECM connector (7) and rear tail lamp connector (2).
4. Remove tail lamp connectors from small T-studs.

NOTE

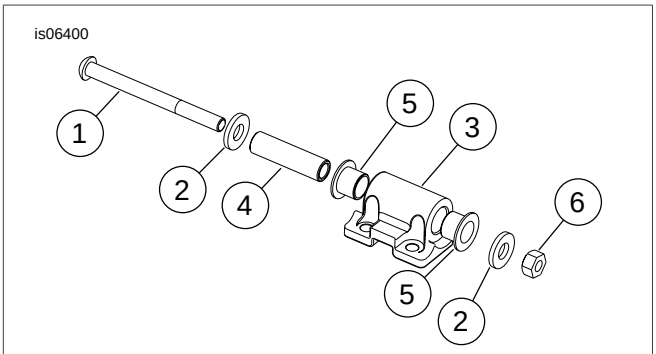
If right side ground cables will not relocate to left side ground location, then they can be mounted to the right side under the harness retaining bracket (8) later in the installation.

5. Relocate grounding cables as follows:
   a. Remove right side ground screw (5) and left side ground screw (6).
   b. Secure all ground cables to left side ground location with screw (6). Tighten left screw to 90-110 **in-lbs** (10-12 Nm).
   c. Save right ground screw for later installation.



1. **ECM cover mounting hole**
2. **Rear tail lamp connector**
3. **Pivot block mounting hole (2)**
4. **Rear seat mount bracket locations (2)**
5. **Right side ground screw**
6. **Left side ground screw**
7. **ECM Connector**
8. **Harness retaining bracket**

Figure 3. Install Spring Seat



1. **Screw, 5/16-18 x 3-1/4 in**
2. **Washer (2)**
3. **Pivot block (2)**
4. **Pivot sleeve**
5. **Bushing (2)**
6. **Hex nut**

Figure 4. Pivot Bracket Assembly

6. See Figure 4. Press the pivot bushings (5) into the pivot block (3) using a suitable press or vise, being careful to protect bushing surfaces, **or** use the supplied hardware to press the bushings as follows:
   a. Install two bushing into the pivot block (3) and secure with screw (1), pivot sleeve (4), washers (2) and nut (6).
   b. Tighten nut to seat bushings until there is face contact with the pivot block.
   c. Remove nut, screw, pivot sleeve and washers and save for later installation.
7. See Figure 3. Apply Loctite 243 (blue) to the threads of screws (item 8, Figure 6). Install the pivot block to the screw holes (3) with the screws. Tighten screws to 90-110 **in-lbs** (10-12 Nm).
8. Remove and discard screws (4), if equipped.
9. **FLST/C/N Models:** Install clip nut for upper cover installation.
   a. Using a drill, enlarge hole (1) to a diameter of 9/32 - 5/16 in (7 - 8 mm).
   b. Apply paint to any metal exposed during drilling to prevent corrosion.
   c. Install clip nut (item 22, Figure 6) over the sheet metal edge of the ECM bracket and align holes.
10. **FLST/C/N models:** See Figure 6. Apply Loctite 243 (blue) to the threads of screws (15). Install seat mount bracket (14), two screws (15) and two spacers (16). Tighten screws to 96-120 **in-lbs** (11-13 Nm).

    All other models: See Figure 6. Apply Loctite 243 (blue) to the threads of screws (15). Install seat mount bracket (14) and two screws (15) over the mount flange of the ECM caddy and fasten to frame. Tighten screws to 96-120 **in-lbs** (11-13 Nm).
11. See Figure 3. Connect the ECM connector (7) and rear tail lamp connectors (2).

NOTES

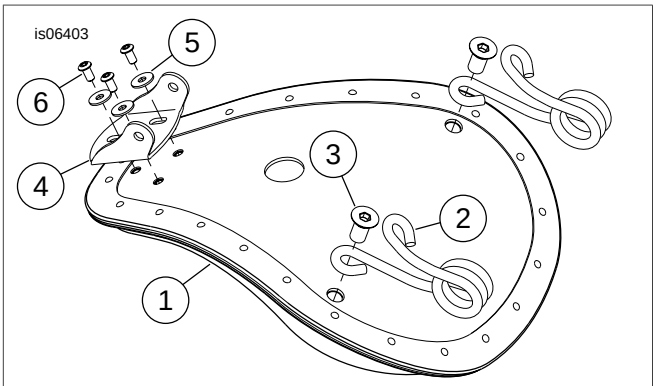
When installing the lower frame cover, secure any remaining right side ground cables between the harness retaining bracket and frame.

Move harnesses as necessary to allow frame covers to mount without interference. The ribs on the underside of the lower frame cover should rest on the battery without pinching the harness.

12. See Figure 6. Install lower frame cover (18) and the previously saved right side ground screw. Tighten screw to 60-90 **in-lbs** (7-10 Nm).
13. Install upper frame cover (19, 20, 21 or 24) over the ECM. Orient the cover so that the lower tab fits into the slot of the lower frame cover. Secure with screw (23). Tighten screw to 60-90 **in-lbs** (7-10 Nm).

Assemble Spring Seat

1. See Figure 5. Place seat (1) upside down on a clean surface.
2. Install screw (3) and spring (2). Do not tighten. Repeat for opposite side.
3. Orient the springs so they are parallel with each other and the seat. Verify that the springs are seated against the metal seat pan under the edge of the leather. Tighten screws to 25-30 ft-lbs (34-41 Nm).
4. Install seat pivot bracket (4), washers (5) and screws (6) to the seat. The bracket will sit on top of the leather at the front of the seat. Center the screws in bracket slots, then alternately tighten screws to 48-72 **in-lbs** (5.5-8.0 Nm).



1. **Seat**
2. **Spring (2)**
3. **Screw, 1/2-13 x 1 in (2)**
4. **Pivot bracket**
5. **Washer, 1/4 in ID x 3/4 in OD (3)**
6. **Screw, 1/4-20 x 1/2 in (3)**

Figure 5. Install Pivot Bracket to Seat

Install Spring Seat

1. See Figure 6. Install pivot sleeve (6) into the pivot block.
2. Install seat and front pivot bracket over the pivot block.
3. Apply Loctite 243 (blue) to the threads of screw (1).
4. Install a washer (2) onto screw (1), then insert screw through the pivot bracket (9), spacer (3), pivot block (5), spacer (3) and pivot bracket (9). **Do not** install final washer and nut at this time.

NOTE

If the spring holes do not center over the rear seat bracket mounting holes, loosen the front pivot bracket on the seat and reposition until the seat and springs orient properly. Tighten the pivot bracket screws to 48-72 ***in-lbs*** *(5.5-8.0 Nm). Repeat as necessary.*

5. Pivot seat over so that the springs rest on the rear seat mount posts. Orient seat so that the springs align with mounting holes.
6. See Figure 6. Secure the springs (12) to the rear mount bracket with screws (13). Tighten screws to 25-30 ft-lbs (34-41 Nm).
7. Secure the pivot screw with a washer (2) and nut (7). Tighten nut and screw to 96-120 **in-lbs** (11-13 Nm).

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SERVICE PARTS

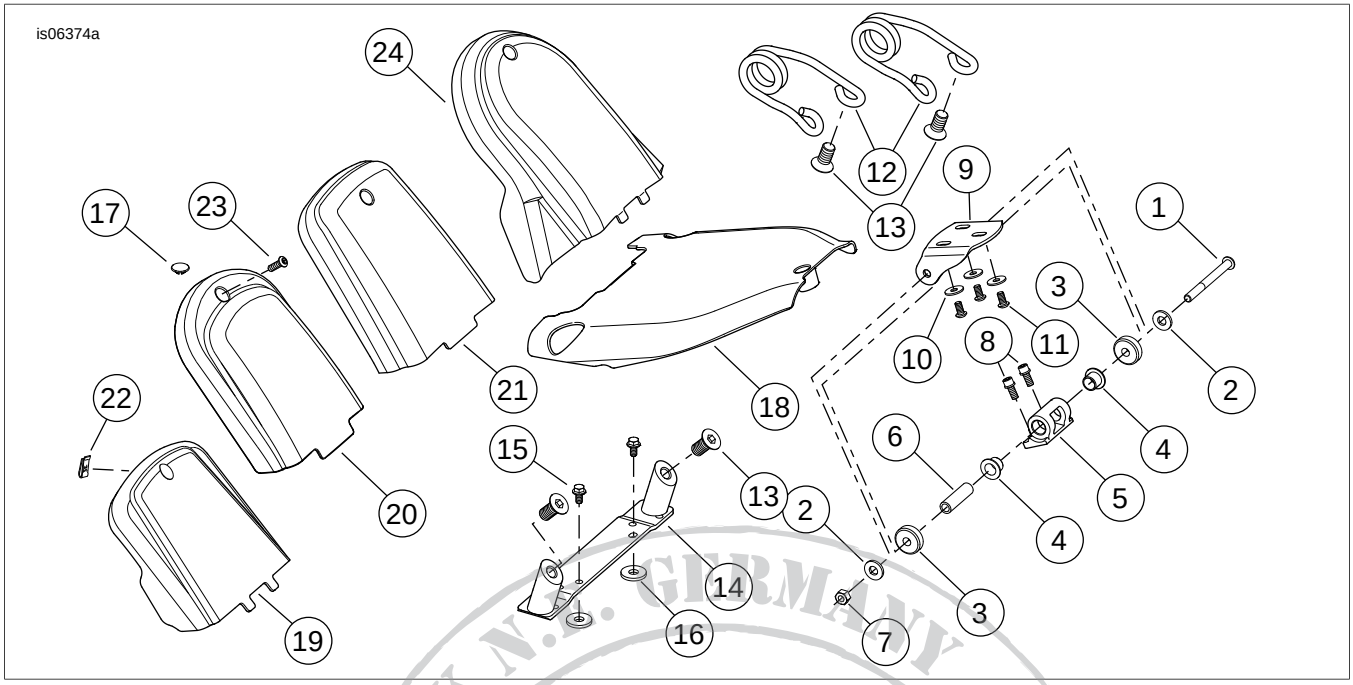

Figure 6. Service Parts: Softail Spring Seat Kit

Table 1. Service Parts Table

Item	Description (Quantity)	Part Number
1	Screw, socket button head, 5/16-18 x 3-1/2	Not Sold Separately
2	Washer, 3/8 in ID x 13/16 in OD (2)	6400HB
3	Spacer, pivot, nylon (2)	Not Sold Separately
4	Bushing (2)	52253-08
5	Bracket, frame mount pivot	52264-08
6	Pivot, bushing	9725
7	Nut, hex, 5/16-18 in	7748W
8	Screw, SEMS, 1/4-20 x 5/8 in (2)	3061
9	Bracket, pivot	Not Sold Separately
10	Washer, 0.27 in ID x 0.75 in OD (3)	6253W
11	Screw, socket button head, 1/4-20 x 1/2 in (3)	3063
12	Spring, spring seat (2)	Not Sold Separately
13	Screw, flat head, socket, 1/2-13 x 1 in (4)	Not Sold Separately
14	Mount, spring seat	Not Sold Separately
15	Screw, flange, 1/4-20 x 1 in (2)	939
16	Spacer, 3/8 in ID x 1 in OD x 0.12 in thick (2 - Kit 54376-10 only)	Not Sold Separately
17	Plug, fender	761
18	Cover, lower frame	49800-10
19	Cover, ECM (for FLSTC/N models, Kit 54376-10 only)	49802-10
20	Cover, ECM (for FXST and FLSTSB models, Kit 54375-10 only)	49801-10
21	Cover, ECM (for FLSTF/FB models, Kit 54377-10 only)	49803-10
22	Clip nut, 1/4-20 in (for FLSTC/N models, Kit 54376-10 only)	8108
23	Screw, socket button head, 1/4-20 x 3/4 in	923
24	Cover, ECM (for FXS models, Kit 52000014 only)	69200097

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